

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

August 28, 1981

Carrol Products, Rhode Island



SEMS DocID

641388

*File .227*

J. Elliott Thomas, Jr., Hydrologist  
Drinking Water Branch

Michelle Travers  
Enforcement

RCRA RECORDS CENTER  
FACILITY *Agency Realty*  
I.D. NO. *R1000204216*  
FILE LOC *8-5*  
OTHER

This memo is to document our conversation of August 27, 1981.

In order to obtain additional data on the groundwater in the vicinity of Carrol Products, I contacted Barbara Ryan of the USGS Water Resources Division. The USGS is investigating possible contamination from the United Nuclear Plant south of the river in the vicinity of Carrol Products. During the course of this four-year study, (funded entirely by the USGS) about 30 borings have been or will be drilled in the area.

One of the borings (627 on the enclosed maps provided by the USGS) on the Carrol Products side of the river has a specific conductance of 230 umhos/cm which is much higher than the normal background less than 100 umhos/cm and as low as 30-40 umhos/cm. Barbara Ryan of the USGS feels that this indicates the presence of contaminants in the groundwater. Field tests on the water indicate no nitrates are present. The plume for United Nuclear contains nitrate concentrations as high as 2000-3000 mg/l so that United Nuclear is not considered to be causing the contamination in this well.

Groundwater from the aquifer is being used by local residents as a source of drinking water from private domestic wells. The high school which is upgradient is using water from the aquifer. Approximately five miles down the Pawcatuck River, Westerly, Rhode Island draws water from wells located near the river.

Depth to bedrock is considered to be in the range of 175' below ground surface. The groundwater level in well 637 was at 4.78' on May 5, 1981 indicating a substantial thickness of saturated material.

The USGS has requested copies of the test data from the Carrol Products site. This data would be used to alert their laboratories of possible contaminants when additional tests are made. They would provide us with results of their testing for our in-house use. The USGS would keep any data we provided confidential if requested.

Additional data will be provided to you as received.

Enc.

cc: Lauren Stiller-Rikleen  
Enforcement

TW-DWM CONCURRENTLY 28/81

|        |            |  |  |  |  |  |  |
|--------|------------|--|--|--|--|--|--|
| SYMBOL | <i>PWP</i> |  |  |  |  |  |  |
| SJNAME | <i>JAT</i> |  |  |  |  |  |  |
| LATE   | <i>BBB</i> |  |  |  |  |  |  |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: August 28, 1981

SUBJECT: Carrol Products, Rhode Island

FROM: J. Elliott Thomas, Jr., Hydrologist  
Drinking Water Branch

TO: Michelle Travers  
Enforcement

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Enc.

cc: Lauren Stiller-Rikleen  
Enforcement

Local Well No: RIW 637  
Altitude Land surface: 49.09'  
Date drilled: April 24, 1981

Depth of well: 10.0'  
Water level 5/5/81: 4.78'

### Field Water Quality Parameters

Date: 5/19/81

Time: 1340

Temp °C: 9.0

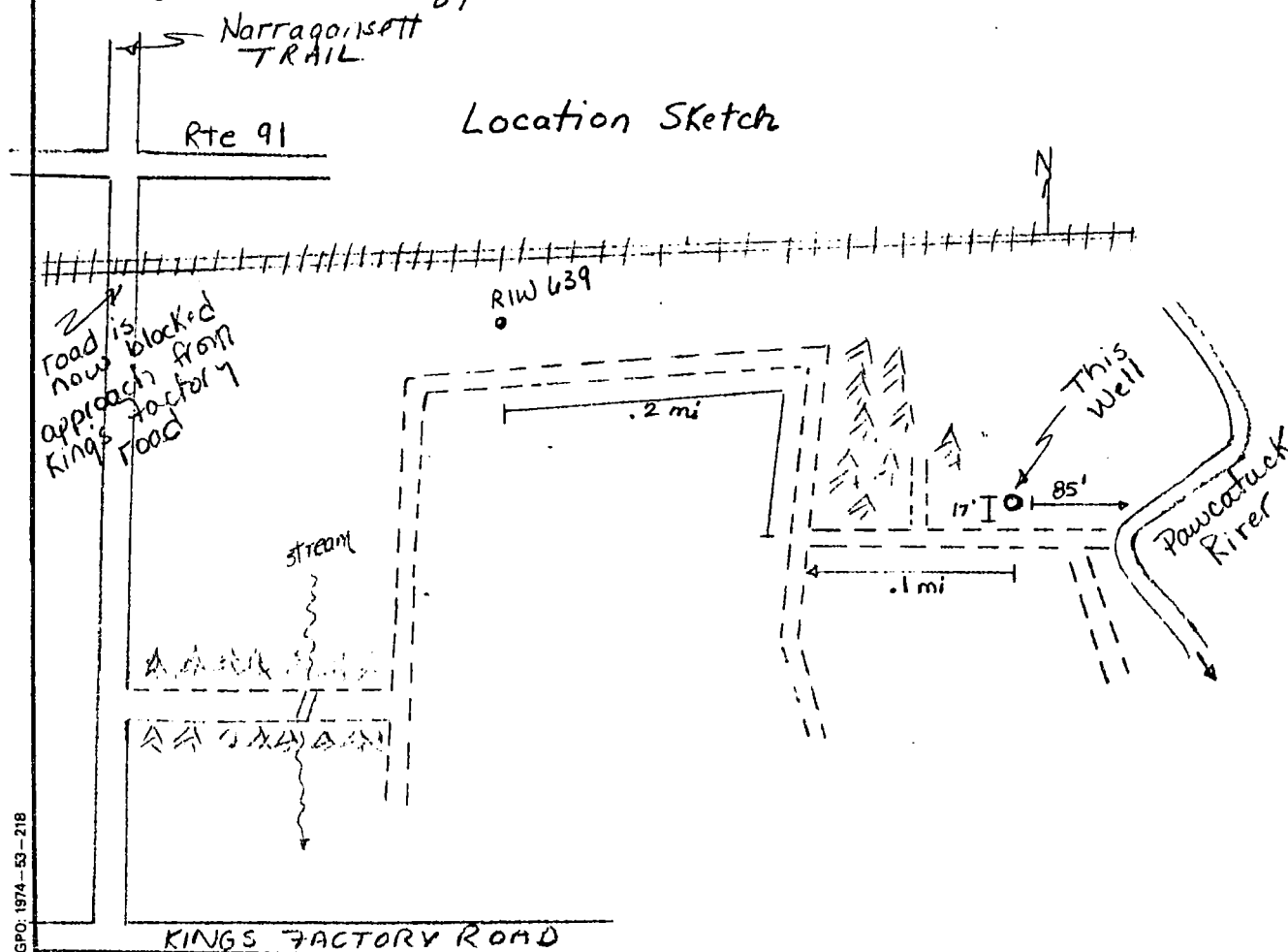
Dissolved Oxygen: 0.5 mg/L

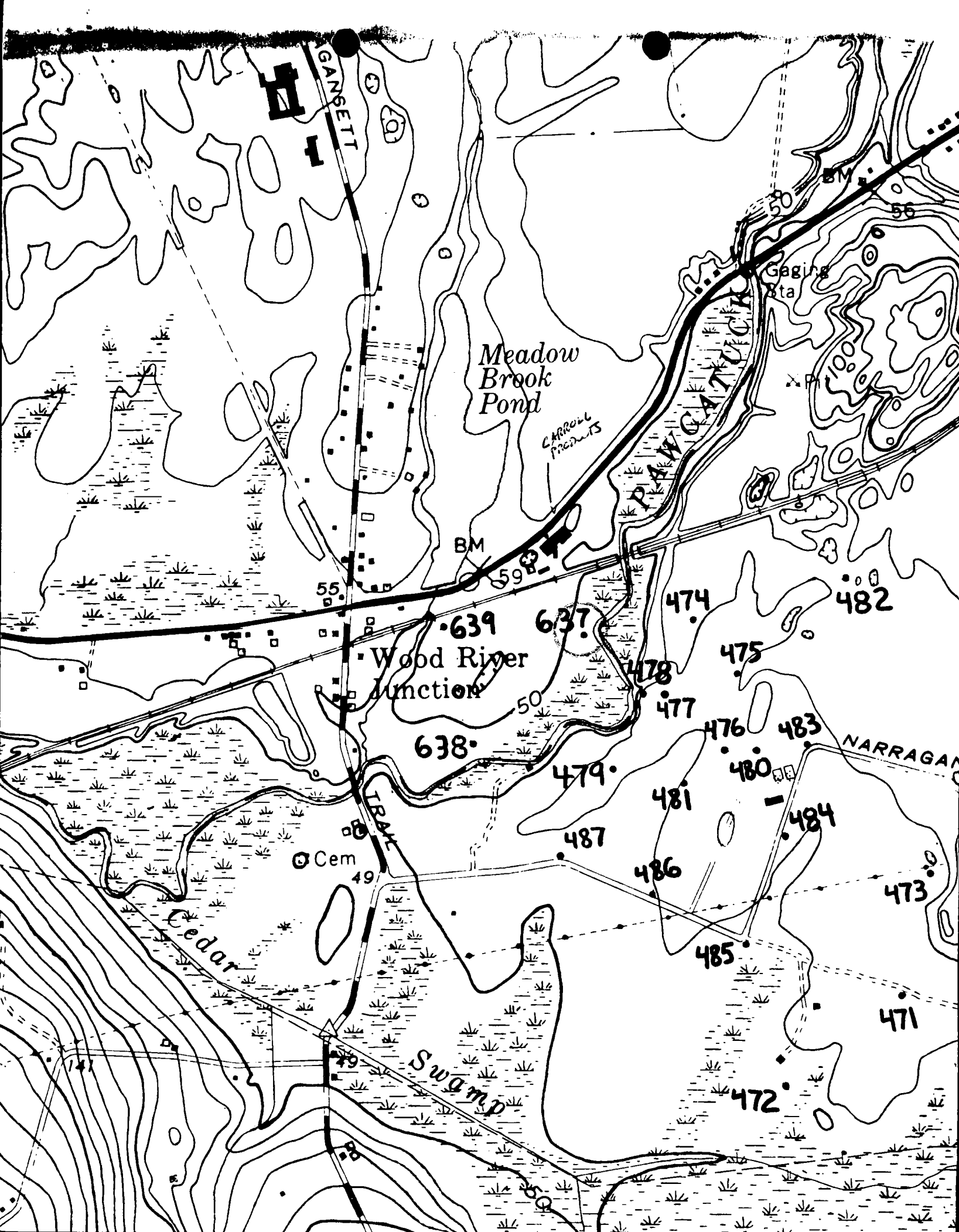
Specific Conductance: 230  $\mu\text{mhos/cm}$

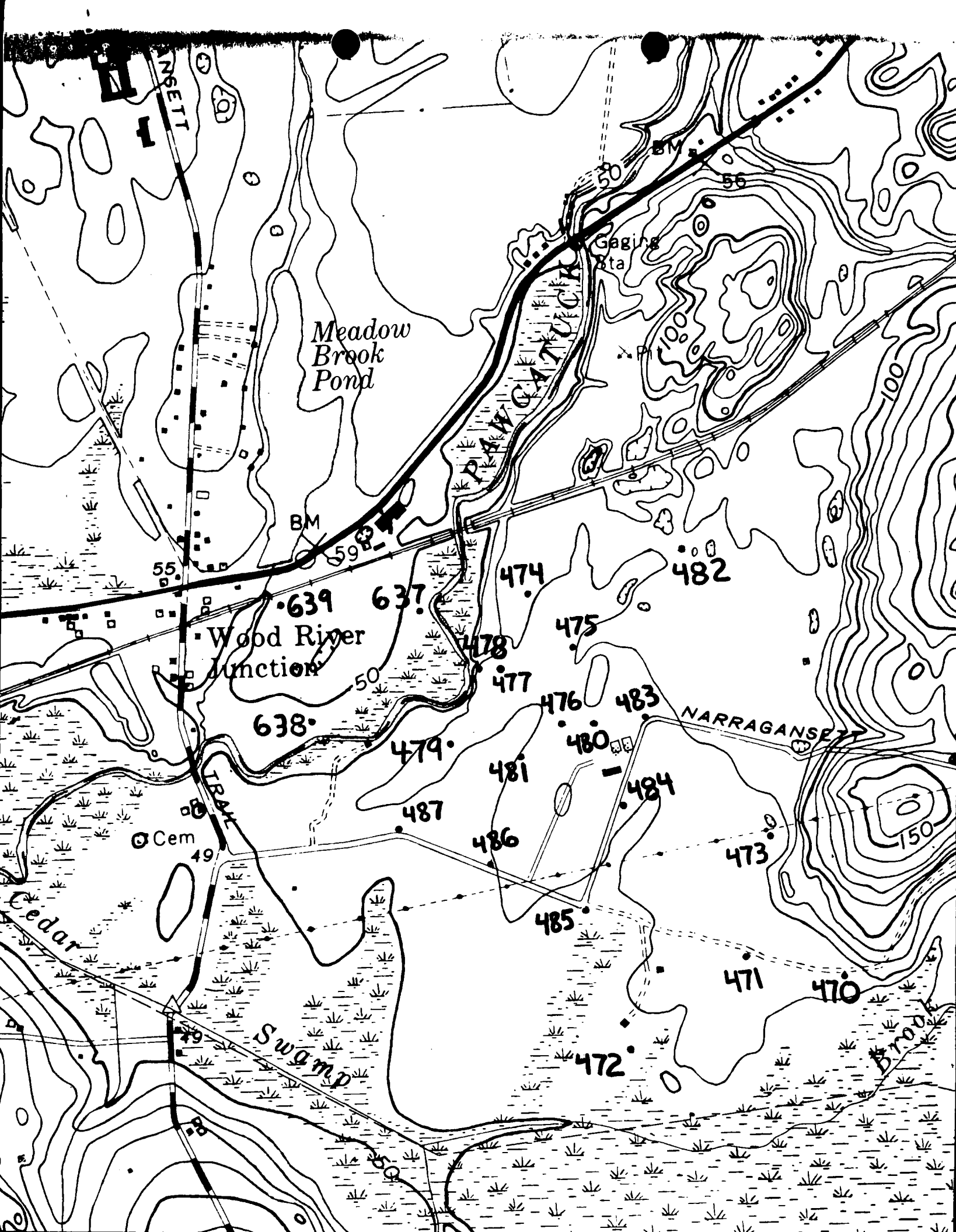
pH: 6.5

NO<sub>3</sub> as N = 0 mg/L

### Location Sketch







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